

BOGUSLAWSKI, Z.

TECHNOLOGY

PERIODICAL: BUDOWNICTWO PRZEMYSLOWE. Vol. 7, no. 9, Sept. 1958

BOGUSLAWSKI, Z. The effect of the method of prefabrication on the
transportation and assembly industries. p. 62.

Monthly List of East European Accessions (EEAI) LC Vol. 8, no. 4.

April, 1959, Unclass

BOGUSLAWSKI, Zbigniew (Warszawa)

Equipment of the building industry with fundamental working means in the light of the results of general inventory taking and evaluating the durable means. Przegl budowl i bud mieszk 34 no.9:548-552 S '62.

BOGUSLAWSKI, Zbigniew, dr

Construction mechanization trends in the light of the economic
efficiency theory. Przegl budowl i bud mieszk 34 no.1:57-60 Ja
'62.

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New raw materials and new methods in the production of chloride and polyvinyl chloride. Polimery tworzą wielk 7 no.7/8:236-239
Jl-Ag '62.

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Przegl budowl i bud mieszk 36 no. 5:242-246 My '64.

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"Reinforcement of Slab and Beam Structure in the Stalin Palace of Culture and Science," P. 196. (PRZEGLAD BUDOWLANY, Vol. 26, No. 7, July 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

BOGUSZ, Alina (Lublin)

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Czasop geograf 34 no.3:323-325 '63.

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100 p. [Excursions from Nowa Hula. illus., map, facsim.]

SOURCE: East European Occession List (EEAL), Library of Congress,
Vol. 6, No. 1 January 1957

BOGUSZ, Jerzy, mgr inż.

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no.5:169-174 My '62.

1. Politechnika, Krakow.

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rod grid nets, spatially stressed. Ins 1 bud 21 no.4:125-
129 Ap '64.

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(OIML 25:5)

1. Of the Occupational Diseases Center at the First Surgical Clinic
(Head--Prof. J. Bogusz, M.D.) of Krakow Medical Academy.

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1. Z I Kliniki Chirurgicznej im. Prof. M. Rutkowskiego Akademii Medycznej w Krakowie. Kierownik: Prof. dr J. Bogusz.
(HYPERTHYROIDISM, surgery,)
*

BOGUSZ, Jozef

Surgical treatment of simple goiter, thyrotoxicosis and Graves-
Basedow's disease. Przegl. lek., Krakow 10 no.6:180-186 1954.

1. Z I Kliniki Chirurgicznej im. prof. M. Rutkowskiego Akademii
Medycznej w Krakowie. Kierownik: prof. dr J. Bogusz.
(HYPERTHYROIDISM, surgery,)
(GOITER, surgery,)

MIKULOWSKI, Włodzimierz; BOGUSZ, Józef; SZNAJDER, Włodzimierz.

Surgical treatment of a case of pulmonary cyst in a 12-year-old boy. Polski tygod. lek. 10 no. 47:1539-1541 21 Nov. '55.

1. Z Kliniki Chorob Dzieci A.M. w Krakowie; dyrektor; prof. dr. Władysław Bujak, Oddziału Obserwacyjnego; ordynator; Prof. Dr. Włodzimierz Mikulewski i z I Kliniki Chirurgicznej im. Maksymiliana Rutkowskiego A.M. w Krakowie; dyrektor; prof. dr Józef. Bogusz. adres: Włodzimierz Mikulewski, Krakow, ul. Biskupia, 8, Józef Bogusz. Krakow, ul. Boh. Stalingradu, 43;; Włodzimierz Sznajder, Krakow, ul. Boh. Stalingradu 4.

(LUNGS, cysts,
in child, surg.)
(CYSTS,
lungs, surg. in child)

ROGUSZ, J.

"Investigation of the strength of bridges." p. 330. (INŻNIERIA I BUDOWNICTWO
Vol. 11, No. 11, Nov. 1955. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL). LC. Vol. 4, No. 4.
April 1955. Uncl.

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Reported in New Books, (Nowe Ksiazki), No. 6, March 15, 1956.

MIKULOWSKI, Wlodzimierz; BOGUSZ, Josef

Case of stenosis of the splenic vein (Wallgren's disease)
in a 4-year-old boy treated by surgery. Polski tygod. lek.
11 no.8:372-374 20 Feb 56.

1. Z Kliniki Pediatr. A M w Krakowie: dyrektor prof dr.
Wladyslaw Bujak, z Oddzialu Obserwac. ; ordyn. prof. dr.
Wlodzimierz Mikulowski i z I Kliniki Chirurg. im. Maksymiliana
Rutkowskiego A M w Krakowie; dyrektor prof dr. Josef Bogusz
Krakow, ul. Biskupia 8.

(VEINS, PORTAL SYSTEM, stenosis:
splenic in child, surg. (Pol))

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Technic of artificial anus following surgery for rectal cancer.
Polski przegl. chir. 28 no.2:163-165 Feb 56.

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J. Bogusz Krakow, ul. Kopernik 40.

(RECTUM, neoplasms

surg., construction of artificial anus.

(ANUS, surg.

reconstruction after rectal cancer excis.

BOGUSZ, J.

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Oct 56.

(OBITUARIES,
Rybicki, Jan (Pol))

BOGUSZ, Jozef

Treatment of bleeding from the upper segments of the gastrointestinal tract. Polski przegl. chir. 30 no.5:447-457 May 58.

(GASTROINTESTINAL SYSTEM, hemorrhage,
upper segment, ther. (Pol))

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no.8/9:715-742 '60.

(SURGERY hist)

(SCHOOLS MEDICAL hist)

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Surgical hazard in the light of recent achievements. Polski przegl.
chir. 32 no.8/9:827-833 '60.
(SURGERY OPERATIVE compl)

BOGUSZ, Jozef; OSZACKI, Jan; BARCZYNSKI, Marian; BOZEK, Piotr;
BUTELSKI, Wlodzimierz; SYCH, Marek

Attempted local nitrogranulogen therapy of leg sarcoma with the use
of the apparatus for extracorporeal circulation. Polski tygod. lek.
16 no.23:893-895 5 Je '61.

1. Z I Kliniki Chirurgicznej A.M. w Krakowie; kierownik: prof. dr
J. Bogusz i z II Kliniki Chirurgicznej A. M. w Krakowie; kierownik:
doc. dr J. Oszacki.

(LEG neoplasms) (SARCOMA ther) (PERFUSIONS)
(NITROGEN MUSTARDS ther)

B06-1152, Josef

Krakow, Pracownia Lekarska, Vol XIII, Series II, No 5, 62.

(13)

9. "The Occurrence of Palatidum coli in Man." Alfred Krawczyk, of the Department of Internal Medicine (Odsial Interny) of the G.V. (unidentified) Hospital (Szpital) in Krakow, director of the hospital and clinician (ordynator) of the Department of Internal Medicine; dr. A. Krawczyk; pp. 228-229.
10. "Mortality of Pott's and Kewborns in the 1956-1959 Period." Zdzislaw RUSCZYNSKI, of the Second, Krawczyk and Wern's Diseases Clinic, of the Academy of Medicine of the Polish People's Republic, 1 Gornik Kobietow 10, 10-100, Krakow; director: docent J. Gynski; pp. 230-232.
11. "Ergo Resolvendo Formas." Wladyslaw KRAWCZYK, of the Department of the Agency of Medicine of Zdzislaw RUSCZYNSKI, of the Academy of Medicine of the Polish People's Republic; director: prof. N. Maciejewski; pp. 232-234.
12. "Minutes of the Ordinary Meeting of the Polish Medical Association (Polskie Towarzystwo Lekarskie) Krakow Branch (Odsial w Krakowie) organized jointly with the Association of Anatomical Pathologists (Towarzystwo Anatomopatologiczne), Krakow Branch and the Oncological Association (Towarzystwo Onkologiczne) Krakow Branch, on 11 May 1960." Dr. Piotr BOKSI, secretary; prof. Dr. Josef BOKSI, chairman; pp. 235-236.
13. "Minutes of the Ordinary Scientific Meeting of the Krakow Branch (Krawczyk Odsial) of the Polish Medical Association (Polskie Towarzystwo Lekarskie), on 12 May 1960." Dr. Piotr BOKSI, secretary; prof. Dr. Josef BOKSI, chairman; p. 236.
14. "Russian Summary of Contents." pp. 235-236.
15. "English Summary of Contents." p. 236.

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Thyroid hyperfunction with special reference to treatment
with anti-goiter drugs, radioactive iodine and surgery.
Polski przegl. chir. 35 no.9:880-888 '63.

BOGUSZ, Jozef

Management of so-called unilateral goiter. Pol. tyg. lek. 19
no. 27:1017 6 Jan 64

BOGUSZ, Jozef; BOZEK, Piotr; BUTELSKI, Włodzimierz; SYCH, Marek

Results in the chemotherapy of malignant neoplasms using the apparatus for extracorporeal circulation. Pol. przegl. chir. 35 no.10/11:1150-1152 '63.

1. Z-I Kliniki Chirurgicznej AM w Krakowie Kierownik: prof. dr J. Bogusz.

(ISOLATION PERFUSION) (MECHLORETHAMINE)
(SARCOMA) (LEG) (HEART, MECHANICAL)
(MELANOMA) (NEOPLASM THERAPY)

BOGUSZ, Jozef

Management of non-toxic nodular goiter. Pol. tyg. lek. 19
no.23:857- 1 Je'64

BOGUSZ, Józef

Defense of Wendel's operation in cardiospasm. Pol. przegl.
chir. 36 no.3:275-279 Mr '64.

1. Z I Kliniki Chirurgicznej Akademii Medycznej w Krakowie
(Kierownik: prof. dr J. Bogusz).

BORKOWSKI, Tadeusz; BOGUSZ, Maciej

Fluctuations of the erythrocyte cholinesterase activity and
their relation to the sex of patients. Pol. tyg. lek. 20 no.18:
628-630 3 My '65.

1. Z Instytutu Ekspertyz Sadowych w Krakowie (Dyrektor: prof.
dr. Jan Sehn).

BOGUSZ, Maciej; BORKOWSKI, Tadeusz; JANICKI, Kazimierz; MAGORSKA, Teresa

Studies on the usefulness of the "Acholest" test. Pol. tyg. lek.
20 no.18:642-644 3 My '65.

1. Z Instytutu Ekspertyz Sadowych w Krakowie (Dyrektor: prof.
dr. Jan Sehn) i z III Kliniki Chorob Wewnętrznych AM w Krakowie
(Kierownik: prof. dr. Julian Aleksandrowicz).

Bogusz, S. Country : POLAND H-28
Category : Chemical Technology. Food Industry
Abs. Jour : Ref Zhur-Khimiya, No 14, 1959, No 51448
Author : Bogusz, S.
Institute : -
Title : Baking Properties of Certain Types of Rye
(Poland)
Orig Pub. : Przegl. zboz. mlynarski, 1958, 2, No 10-11,
292-294
Abstract : No abstract.

Card: 1/1
H-160

POLAND/Chemical Technology. Chemical Products and Their
Application. Food Industry.

II-28

Abs Jour: Ref Zhur-Khim., No 2, 1959, 6299.

Author : Bogusz, Stanislaw.

Inst :

Title : Spreading of Gluten as Index of Technological Quality
of Wheat.

Orig Pub: Przen. spozywczy, 1958, 12, No 2, 83-84.

Abstract: A method of determination of spreading of gluten (G)
is described. For that purpose, 5 g of G in the shape
of a little ball is placed on glass covering milli-
meter paper. The difference between the diameters
of the ball at the beginning and in the end of the
experiment describes the spreading of G and the techno-
logical quality of flour: they are considered to be

Card : 1/2

126

COUNTRY : Poland
CATEGORY :

H-28

ABS. JOUR. : RZKhim., No. 1959, No. 88247

AUTHOR : Bogusz, S.

INST. :

TITLE : Oat Flakes of Improved Quality

ORIG. PUB. : Przegl. zboz.-mlynarski, 1958, 2, No 12,
357-358

ABSTRACT : On the basis of laboratory studies a technological production method has been worked out for the processing of oats which comprises the following steps:
1) production of groats in the usual manner; 2) preparation of malt extract by grinding of barley malt, screening and steeping in water for 2 hours at 20-25°; 3) boiling of groats to a 40% moisture content; 4) saccharification of boiled groats with malt extract in an amount of 10%, for 24 hours at 55-65°; 5) rolling of flakes.

Z. Fabinskiy

CARD:

BOGUSZ, Waldemar

A case of traumatic aphasia cured by largactil. Otolaryngologia
14 no. 1:145-147 '60.

1. Z Oddziału Otolaryngologicznego M. Szpitala Nr 4 w Katowicach,
Dyrektor Szpitala: dr med. K. Korzeniowski; Ordynator Oddziału:
doc. dr med. W. Piasecki.

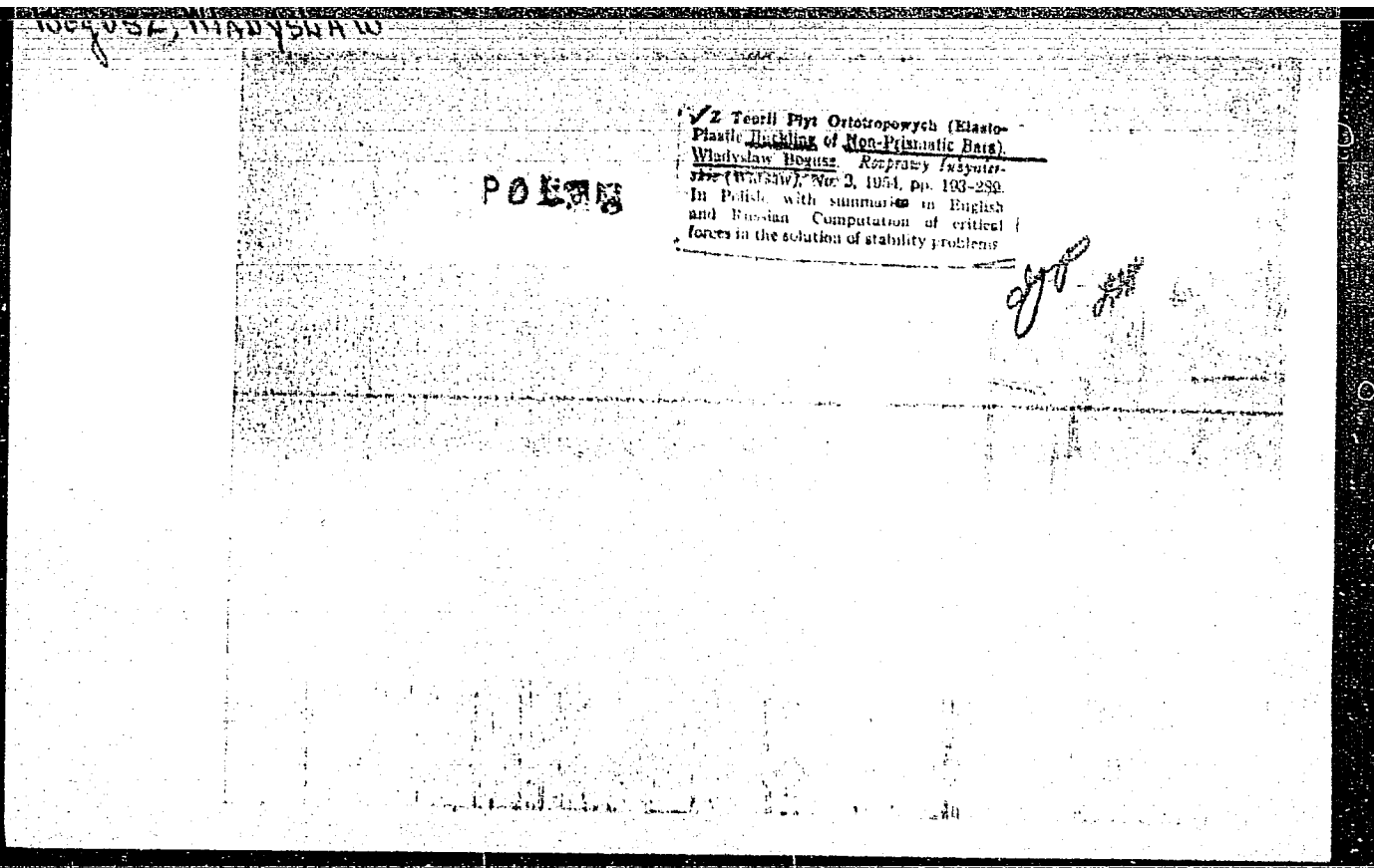
(CHLORPROMAZINE ther.)

(APHASIA ther.)

BOGUSZ, Waldemar; JASIENSKA-SWIATEK, Barbara; KOEHLER, Brygida

Attempts of desensitizing histamine therapy in children. Pediat.
Pol. 40 no.6:609-612 Je '65.

1. Z Oddziału Otolaryngologicznego Szpitala Miejskiego dla Dzieci
nr. 3 w Katowicach (Dyrektor Szpitala: dr. med. S. Roszak; Ordynator:
lek. med. W. Bogusz).



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On Theory of Orthotropic
Plates

Rozpr. Inzyn.
2(2), 191-201
1954

W. Bogusz

Poland

The ~~Marcus~~ two-stage method of calculating the surface of deflection of a thin orthotropic plate under a constant load is used but in order to simplify the calculus the quasi-biharmonic equation of the deflection surface is reduced to two partial differential equations of the second order, one of the equations being a harmonic one. This way of presenting the equation of the surface of deflection of an orthotropic plate allows the use of the two-stage method of solution as in the case of isotropic plates, which takes the form of a successive solution of two partial differential equations of the second order instead of one equation of the fourth order. (Bibl.4)

gaf

✓ 104. Bugasz, W., influence of initial stresses on vibration of ⁷⁶
~~bars of constant~~ cross section (in Polish), Kospr. Inzyn. 6, 1,
105-118, 1958.

This is a tentative theoretical determination of those parameters of longitudinal and transverse vibration of a bar, whose measurement will enable the calculation of the initial stresses. ⁷⁶

The following assumptions are made:

- (1) Every drag of the motion (the influence of the elastic hysteresis loop, in particular) is rejected.
- (2) Confining the discussion to small vibrations of a parabolic dynamic characteristic (that is, the relation between the elastic force and the unit elongation) is assumed.
- (3) The stress distribution is uniform over the cross section.

Obtaining a nonlinear partial differential equation of the second order by means of the perturbation method leads to the conclusion that, for the determination of two coefficients of the parabolic dynamic characteristic, the frequency, the amplitude, and the displacement of the vibration center should be measured.

A comparison of the dynamic and the static characteristic enables graphical determination of the initial stress.

M. Piatek, Poland

BOGUSZ, W.

The stability of the motion of bars rotating with changing velocity. p. 547.

ROZPRAWY INŻYNIERSKIE. (Polska Akademia Nauk. Instytut Podstawowych Problemow Techniki) Warszawa.
Vol. 6, no. 4, 1958.

Monthly list of East European Accessions (EEAI) LC. Vol. 8, no. 7, July 1959.

Uncl.

BOGUSZ, W.

The stability of motion of a certain plane mechanism with sliding junctions. p. 263.

ROZPRAWY INZYNIERSKIE. (Polska Akademia Nauk. Instytut Podstawowych Problemow Techniki) Warszawa, Poland.
Vol.7, no.3, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol.9, no.1, Jan. 1959.

Uncl.

FOGUSZ, W.; CZUBAK, A.; KRUPA, L.

Operational principles of the head of a coal loader and cutter with rotating hammers. p. 130.

PRZEGLAD GORNICZY. Stowarzyszenie Naukowo-Techniczne Inzynierow i Technikow Gornictwo, Katowice, Poland, Vol. 15, No. 3, March, 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959
Uncl.

B66452, W

PHASE I BOOK EXPLOITATION

POL/4460

Polska akademia nauk. Instytut podstawowych problemów techniki

Zagadnienia drgań nieliniowych, 1 (Problems of Nonlinear Vibrations, Vol. 1)
Warsaw, Państwowe wyd-wo naukowe, 1960. 136 p. 650 copies printed.

Ed.: Stefan Ziemia; Deputy Ed.: Janisław Skowroński.

PURPOSE: This book is intended for scientists and engineers interested in theoretical and experimental research on vibrations.

COVERAGE: The collection contains 10 articles on the theory and measurement of nonlinear vibrations of structural systems. The basic problem is the nonlinear character of the dependence of the acting forces on the strains or the velocity of motion of particular elements of the investigated structural system. This nonlinearity is to be taken into consideration in calculating electrical and automation systems. The mathematical procedures of the investigation of motion in the calculation of the nonlinearity of systems with a finite number of degrees of freedom are based on the theory of dynamic systems generalized according to the work of Birkhoff and other classic studies. The combination of the purely

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PHASE I BOOK EXPLOITATION

POL/4460

Polska akademia nauk. Instytut podstawowych problemów techniki

Zagadnienia drgań nieliniowych, 1 (Problems of Nonlinear Vibrations, Vol. 1)
Warsaw, Państwowe wyd-wo naukowe, 1960. 136 p. 650 copies printed.

Ed.: Stefan Ziemba; Deputy Ed.: Janisław Skowroński.

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Problems of Nonlinear Vibrations, Vol. 1

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technical problems of vibration theory with the theory of dynamic systems has contributed to the rapid development of nonlinear vibration theory during the last decade. The main research activities in this field have been based on the development of adequate mathematical centers like the school of V.V. Nemytskiy and Krasnosel'skiy in the USSR. In Poland, the mathematical school of T. Ważewski is working in this field with very promising results. For several years a group of workers of the ZBD IPPT PAN (Zakład Badań Drgan Instytut Podstawowych Problemów Techniki Polskiej Akademii Nauk (Department of Vibrations Study, Institute of Basic Technical Problems of the Polish Academy of Sciences) has conducted studies on two sets of problems: 1) the qualitative analysis and synthesis of the motion of mechanical systems of several degrees of freedom; and 2) the quantitative analysis of the motion of such systems by asymptotic methods. The papers of this collection are concerned chiefly with the first set. References and summaries in Russian and English are given at the end of each article.

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AVAILABLE: Library of Congress

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D242/D301

9.3220

AUTHOR: Bogusz, Władysław (Cracow)

TITLE: Application of the retract method in non-linear engineering problems

PERIODICAL: Archiwum mechaniki stosowanej, v. 12, no. 4, 1960, 437 - 449

TEXT: The topological method of investigating the asymptotic behavior of solutions of ordinary differential equations, due to T. Ważewski (Ref. 1: Sur un principe topologique de l'examen de l'allure asymptotique d'intégrales des équations différentielles ordinaires, Ann. Soc. Polon. Math. 20, 1947, 279) is expounded for application to engineering problems. The system of equations

$$\frac{dx_i}{dt} = f_i(t, x_1, \dots, x_n) \quad (i = 1, 2, \dots, n) \quad (1.1)$$

is considered, where it is assumed that the functions f_i are real

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and continuous in the open $(n + 1)$ - dimensional set Ω , and that one solution of the system of equations passes through every point of the set Ω . Consider, states the author, two sets A and B in an arbitrary topological space, such that $A \subset B$. Denote by P a variable point in this space. It is said that the transformation $Q = T(P)$ yields a retract from B into A if $T(P)$ is continuous in B and if $T(P) \in A$ as $P \in B$, $T(P) = P$ as $P \in A$. If this transformation exists the set A is called the retract of the set B . Let the $(n+1)$ -dimensional sets ω and Ω be open and $\omega \subset \Omega \subset E_{n+1}$. The boundary of ω with respect to the set Ω is the set of the boundary points of ω which belong to Ω . It shall be denoted by $\text{front}(\omega, \Omega)$. It is said that ω^* is exterior set of ω with respect to Ω , if it satisfies the relation $\omega^* = \Omega - \omega - \text{front}(\omega, \Omega)$. The set ω^* is open. The point Q is called the point of rigorous issue of the set ω with respect to the set Ω and the system (1.1) if there exists a number $\varepsilon_0 > 0$ such that all points of the solution passing through Q at the instant t_0 corresponding to the values of t in the interval $t_0 < t <$

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$t_0 + \varepsilon_0$ belong to the exterior set ω^* (cf. 1.3). The set of all points of rigorous issue will be denoted as follows: $S = \text{rigorous issue } (\omega, \Omega)$. Assuming that every point of issue is a point of rigorous issue, Theorem 1 can be proved: Let the sets Z and S_1 satisfy the relation $S_1 \subset S$, $Z \subset \omega + S_1$; $Z \cdot S_1$ is the retract of S_1 , $Z \cdot S_1$ is not the retract of Z . Under these assumptions there exists at least one point P_0 such that $P_0 \in Z - S_1$ and an issue point of the point P_0 does not exist or it belongs to the set $S - S_1$. Assuming also that the boundary of the set ω touches the boundary of the set Ω only on the plane $t = b$ (b is finite or $b = +\infty$), Theorem 2 can be proved: Let the set Z satisfy the relations: $Z \subset \omega + S$; $Z \cdot S$ is the retract of S ; $Z \cdot S$ is not the retract of Z . Under these assumptions there exists at least one point P_0 belonging to the set $Z - S$, such that the solution issuing from this point at the instant t_0 remains in the set ω for $t_0 \leq t \leq b$. If, on the other

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hand, one adds to the assumptions of Theorem 1 the assumption that the boundary of the set ω does not touch the boundary of the set Ω , Theorem 3 can be proved: Let the sets Z and T satisfy the relations $T \subset S$ and $Z \subset \omega + S - T$; $Z(S - T)$ is the retract of $(S - T)$; $Z(S - T)$ is not the retract of Z . Under these assumptions there exist two points $P_0 \in Z$ and $Q_0 \in T$ which may be connected by an arc $[P_0, Q_0]$ of the solution of the system (1.1), contained in the set ω except for the point Q_0 . The application of the method requires construction of a set ω such that on its boundary there are only points of rigorous issue. A sufficient condition is obtained as follows: Assume that the functions $l^\alpha(t, x_1, \dots, x_n)$ $m^\beta(t, x_1, \dots, x_n)$, $\alpha = 1, \dots, p$, $\beta = 1, \dots, q$, belong to the class C_1 in the open set Ω . Denote by ω the set of points P belonging to Ω and satisfying the inequalities $l^\alpha(P) < 0$, $m^\beta(P) < 0$, $\alpha = 1, \dots, p$, $\beta = 1, \dots, q$. Let the front (ω, Ω) (cf. 1.2) be generated by the sets L^γ and M^δ , $\gamma = 1, \dots, p$, $\delta = 1, \dots, q$ defined as follows:

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$P_0 \in L^\gamma$ as $P_0 \in \Omega$, $l^\gamma(P_0) = 0$, $l^\alpha(P_0) \leq 0$, $m^\beta(P_0) \leq 0$,

$P_0 \in M$ as $P_0 \in \Omega$, $m^\delta(P_0) = 0$, $l^\alpha(P_0) \leq 0$, $m^\beta(P_0) \leq 0$.

Let the total derivative with respect to t of the function l^γ (the system (1.1) being taken into account) be positive at all points of the set L^γ and the total derivative with respect to t of the function m^δ (the system (1.1) being taken into account) be negative at all points of the set M^δ . Denote by S the set of points of issue of the set ω with respect to the set Ω . Under these assumptions the set S is the set of points of rigorous issue and

$$S = \sum_{\gamma=1}^p L^\gamma - \sum_{\delta=1}^q M^\delta.$$

The method is applied to a discussion of the boundedness of solutions near the singular point for a problem of negative elasticity

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Application of the retract ...

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with non-linear damping, and also to the problem of the existence of bounded solutions for the currents in an electrical circuit including an element with non-linear characteristic. In both cases a set ω is found that is bounded by planes, and it is stated that the set ω can easily be obtained in cases where the singular point of saddle type is unstable, but in which in other cases may be difficult to obtain. There are 6 figures and 6 Soviet-bloc references.

ASSOCIATION: Department of Mechanics of Continuous Media, IBTP
Polish Academy of Sciences

SUBMITTED: January 25, 1960

Card 6/6

16,3500

41448

S/044/62/000/009/010/069
A060/A000

AUTHOR: Bogusz, Władysław

TITLE: A two-tensor method for investigating nonlinear systems

PERIODICAL: Referativnyi zhurnal, Matematika, no. 9, 1962, 32, abstract 9B169
("Proc. Vib. rat. Probl. Polish Acad. Sci.", 1961, v. 2, no. 3,
285 - 305 (English; Polish, Russian summaries)

TEXT: The author considers a system of differential equations

$$\dot{x} = F(x). \quad (1)$$

It is assumed, in particular, that the mapping $y = F(x)$ has an inverse $x = \varphi(y)$.
Together with the system (1) he considers the system

$$\dot{y} = a(y) y, \quad (2)$$

where

Card 1/2

$$a_{1k} = \frac{\partial F_1}{\partial x_k}.$$

A two-tensor method for...

S/044/62/000/009/010/069
AO60/A000

The study of the behaviour of the system (1) reduces to the study of the behaviour of system (2). The investigation of the system (2) is carried out by considering the scalar product of the radius vector and the velocity vector of the given point, and also by means of the bivector of the indicated vectors. The rectifiability conditions of the dynamic system are cited. A method is given for estimating the domain of stability, as well as a method of determining the nature of the singularity of the system (2). It is demonstrated that, if the trajectory of system (1) is bounded, tends to a singularity, or goes off to infinity, then the corresponding trajectory of the system (2) also possesses the same respective properties. In conclusion the author analyses three examples of an applied type and in each of them determines the domain of attraction of the equilibrium position.

Ye. A. Barbashin

[Abstracter's note: Complete translation]

Card 2/2

BOGUSZ, Wladyslaw, doc., dr.; BEDNARZ, Stanislaw, mgr., inz.;
GIERGIEL, Jozef, mgr., inz.

Hydraulic method for the granulation and separation of
open-hearth slag. Wiad hutn 18 no.3:65-67 Mr '62.

BOGUSZ, Wladyslaw, doc., dr., inz.

Sufficient conditions for optimum operation of the on-off servo system. Stroj cas 13 no.6:511-515 '62.

1. Akademia Gorniczo-Hutnicza, Krakow.

BOGUSZ, Wladyslaw

Determination of the internal forces causing vibration damping. Przegl naukowo-tech AGH no.4:1-17 '61.

1. Katedra Mechaniki Technicznej, Akademia Gorniczo-Hutnicza, Krakow.

BOGUSZ, Wladyslaw, dr inz.

Aggregate crushing by the blasting method. Wiad hut 16 no.4:107-109
Ap '60.

BOGUSZ, Wladyslaw, dr inz.

Methods of aggregate crushing during the repair of metallurgical
furnaces. Wiad hut 16 no.7/8:215-217 J1-Ag '60.

BOGUSZ, Wladyslaw

Problem of the limit cycle for nonlinear systems. Zagad drgan
nielin no.4:77-81 '62.

1. Department of Technical Mechanics of the School of Mining
and Metallurgy, Krakow. Submitted March 29, 1961.

BOGUSZ, Wladyslaw (Krakow)

Asymptotic stability with no oscillation of autonomic systems
with one degree of freedom. Proceed vibr probl 4 no. 3:
291-300 '63.

1. Department of Vibrations, Institute of Basic Technical
Problems, Polish Academy of Sciences, Warsaw.

BOGUSZ, Wladyslaw (Krakow)

Border cycles of self-exciting systems. Zagad drgan nielin
3 21-30 '62.

L 47546-66 EWP(w)/T-2/EWP(k) IJP(c) WW/EM

ACC NR: AT6029436

SOURCE CODE: CZ/0000/63/000/000/0178/0184

AUTHOR: Bogusz, Wladislaw (Docent; Doctor; Engineer)

52
B+1

ORG: Academy of Mining and Metallurgy (Akademia Gorniczo-Hutnicze),
Poland

TITLE: Strong nonlinear vibration of airplane wing

2f

2f

SOURCE: Celostatna konferencie o problemoch dynamiky strojov. 2d, Smolenice,
1961. Dynamika strojov (Dynamics of machines); sbornik prac z konferencie SAV,
Bratislava, Vyd-vo SAV, 1963, 178-184

TOPIC TAGS: nonlinear vibration, vibration analysis, aerodynamic theory,
aeroelasticity, airplane wing

ABSTRACT: The study deals with nonlinear large-amplitude vibrations of an
airplane wing. A model wing is investigated as a system with two degrees of
freedom. The topological method is applied which was previously used by the
author to investigate an autonomous system with one degree of freedom and later
generalized for systems with many degrees of freedom. The motion of the system
is expressed by differential equations of the second order. In these equations,

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ACC NR: AT6029436

the nonlinear characteristics of the aerodynamic forces and the nonlinearity of elastic deformations are considered. The energy analysis shows that the strongly nonlinear dependence of the aerodynamic forces upon the angle of attack is the factor controlling the air flow. In case this dependence is linearized, the known theorems on the possible vibration modes of the wing are obtained. The solution of the nonlinear equations shows that self-excited vibrations exist; this means that the differential equations have a periodic solution, i. e., a stable limit cycle or limit regime. The criteria of the self-excited vibrations and system's stability are determined by the topological method in the phase space. Orig. art. has: 3 figures and 23 formulas.

[KP]

SUB CODE: 20, 01/ SUBM DATE: none/ ORIG REF: 003/ SOV REF: 002/
OTH REF: 001/

Card 2/2

vmb

BOGUSZ, Wladyslaw, doc. dr inż.

Safety conditions while moving slender industrial units.
Rutnik 31 no.62192-197 32'62

1. Department of Engineering Mechanics, Academy of Mining
and Metallurgy, Krakow.

BOGUSZ, Waldemar; KOCHLER, Brygida; PIASTOWSKA, Elwira; RZESZOTARSKA, Alina.

Behavior of protein fractions in the blood serum in children with bronchial asthma. Otolaryng. pol. 17 no.4:435-436 '63.

1. Z Oddziału Otolaryngologicznego PSK 4 w Katowicach (kierujący: doc.dr.med. W.Kusnierczyk) i ze Szpitala Miejskiego Nr 3 dla dzieci w Katowicach (dyrektor: dr. med. S.Roszak).

*

BOGUSZ, Waldemar

2 cases of epileptic seizures of vestibular origin. Neurologia
etc. polska 11 no.2:277-279 Mr-Ap '61.

1. Oddziału Otolaryngologicznego Szpitala Miejskiego Nr 4 w
Katowicach Ordynator: doc. dr W. Piasecki.

(EPILEPSY etiol) (VESTIBULAR APPARATUS dis)

Despite 7 Some Problems Connected with Selection of ...
of Staff in Low Data ...

BOGUSZ, Z.; FILUTOWSKI, W.

Analysis of methods of calculating the strength of straight spur gears. Pt.3
Project of a unified calculating method. p.114

PREZEGLAD MECHANICZNY (Stowarzyszenie Inzynierow i Technikow Mechanikow
Poliskich) Wa rszawa, Poland. Vol.18, no.4, Feb. 1959

Monthly List of East European Accessions Index, (EEAI) LC. Vol.6, no.66, June 1959
Uncl.

ROGUSZ, Z.

K. Ochoduszko's Kola zebate (Gears); a book review. p. 224.

PRZEGLAD MECHANICZNY. (Stowarzyszenie Inzynierow i Technikow Mechanikow Polskich)
Warszawa, Poland. Vol. 18, no. 7, April 1959.

Monthly List of East European Accessions (EFAI) LC. Vol. 8, no. 7, July 1959.

Uncl.

BOGUSZ, Zenon

The broad washer and development prospects of its design. Przegl
wlokien 16 no.2:116-119 F '62.

1. Centralne Biuro Techniczne Przemyslu Maszyn Wlokienniczych,
Lodz.

BOGUSZ, Zenon

Revolving arched templets. Przegl wlokien 17 no. 1:18-20
Ja '63.

BOGUSZAK, FRANTISEK.

Topograficke mapovani. [Vyd. 1.] Praha, Statni pedagogicke nakl., 1952. 78 p.
(Ucebni texty vysokych skol) [Topographical map drawing. Bibl.]

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, LC., VOL. 3 NO. 1, Jan. 1954, Uncl.

BOGUSZEWSKA, Janina; WITKOWSKA, Maria

Fluorine content in potable water and dental caries among school children in the city of Bialystok. Zdrow. publiczne 7/8:259-263 J1-Ag '65.

1. Z Zakladu Higieny Ogolnej AM w Bialymstoku (Kierownik: doc. dr. med. B. Hoffmann).

BOGUSZEWSKA, M.

Industrial hygiene in the past, present and in the six year plan.
Polski tygod.lek. 5 no.29-30:1081-1084 24 July 50. (CINL 20:5)

BOGUSZEWSKA, M.

Role of industrial hygiene according to the Second Congress of
the PZPR. Med. pracy 5 no.3:i-iv 1954.
(INDUSTRIAL HYGIENE,
in Poland)

BOGUSZEWSKA, M.

Effect of environment on health of construction ground workers.
Med. pracy 5 no.4:309-320 1954.

1. Z Zakładu Higieny Pracy Akademii Medycznej w Warszawie.
Kierownik: prof. dr M.Boguszevska.

(INDUSTRIAL HYGIENE,

climatic factors in construction works)

(CLIMATE,

hyg. aspects in construction works)

BOGUSZEWSKA, Maria; KRASKA, Tadeusz; KOBYLINSKI, Roman; LOTACH, Henryk

Studies on certain manifestations of head loss during physical effort in soldiers. Postery hig.med.dosw. 13 no.6:787-803 '59.

(EXERCITION)

(BODY TEMPERATURE)

(MILITARY MEDICINE)

BOGUSZEWSKA, Maria; LOTACH, Henryk

Quantitative method for comparative studies on field and industrial clothing. Postepy hig. i med. dow. 14 no.6:679-690 '60.

1. Z Zakladu Higieny Pracy A.M. w Warszawie i Wojskowego Instytutu Higieny i Epidemiologii w Warszawie.
(CLOTHING)

~~BOGUSZEWSKA-DABRYŚOWA, NINA~~

BOZKOWA, Krystyna; BOGUSZEWSKA-DABRYŚOWA, Nina

Influence of pancreatin on high caloric diet tolerance in infants with acute diarrheal conditions. *Pediat. polska* 32 no.2:159-165 Feb 57.

1. Z Kliniki Pediatricznej Pomorskiej A.M. w Szczecinie
Kierownik: prof. dr. med. B. Gornick; Adres: Szczecin, ul. Lukaszewicza 3/4.

(DIARRHEA, in inf. & child

eff. of pancreatin on tolerance of high protein diet (Pol))

(PANCREAS, metab.

pancreatin, eff. on tolerance of high protein diet in diarrhetic child (Pol))

(KEYWORDS

same)

(DIETS, in various dis.

diarrhea in child, eff. of pancreatin on tolerance of high protein diet (Pol))

(PROTEINS, eff.

high protein diet tolerance in diarrhetic child, eff. of pancreatin (Pol))

~~BOGUSZEWSKA, DABRYSOVA, NINA~~
BOZKOWA, Krystyna; BOGUSZEWSKA-DABRYSOVA, Nina; KARAJOSIFIDIS, Kostas

Determination of proteolytic enzymes in the duodenum & feces in children. *Pediat. polska* 32 no.9:1019-1026 Sept 57.

1. Z Kliniki Pediatricznej Pom. Akad. Med. w Szczecinie Kierownik:
prof. dr med. B. Gornicki i z Laboratorium Centralnego Panstwowego
Szpitala Klinicznego w Szczecinie.

(DUODENUM, metab.

proteases in child., determ. (Pol))

(FECES

same)

(PROTEASES, determ.

in duodenum & feces in child. (Pol))

POLAND/Human and Animal Physiology (Normal and Pathological)
Metabolism. Vitamins.

T

Abs Jour : Ref Zhur Biol., No 6, 1959, 26240

Author :

Dozkova, K., Doguszevska-Dabrysowa, N., Sliwiska, H.

Inst :

Title : Absorption of Vitamin A in the Alimentary Tract of
Children With Acute Alimentary Dystrophy.

Orig Pub : Pediatr. polska, 1957, 32, No 10, 1135-1141

Abstract : In children who suffered acute alimentary dystrophy, the
absorption of vitamin A oil solutions in the gastro-intes-
tinal tract was considerably lowered, which the authors
connect with an insufficient content of enzymes in it, in
particular of lipase and phosphatase. In sick children
who were fed mothers milk, the absorption of A was some-
what better, which is explained by the hydrolysing action
of lipase, which is contained in mother's milk. Introduc-
tion of pancreatin increased absorption of A oil

Card 1/2

- 3 -

Boguszevska - Dabrysowa, Nina
BOZKOWA, Krystyna; BOGUSZEWSKA-DABRYSOWA, Nina

Effect of largactil on secretion of digestive juices in infants.
Pediat. polska 32 no.12:1339-1344 Dec 57.

1. Z Kliniki Pediatricznej Pomorskiej A. M. w Szczecinie. Kierownik:
prof. B. Gornicki.

(GASTRIC JUICE,

secretion, eff. of chlorpromazine in inf. (Pol))

(CHLORPROMAZINE, eff.

on gastric juice secretion in inf. (Pol))

BOZKOWA, Krystyna; BOGUSZEWSKA, Nina; SLIWINSKA, Halina

~~AMYLOLYTIC ENZYMES IN CHILDREN~~
Amylolytic enzymes in children. Pediat. polska 32 no.7:809-819 July 58.

1. Z Kliniki Pediatricznej Pomorskiej A. M. w Szczecinie Kierownik:
prof. dr med. B. Gornicki. Adres: Szczecin, ul. Unii Lubelskiej, Klin.
Pediatriczna P. A. M.

(AMYLASES,
physiol.)

(DUODENUM,
physiol.)

GORNICKI, B.; BOZKOWA, K.; BOGUSZEWSKA, N.; MACIAG, H.

Orisul in the treatment of suppurative cerebrospinal meningitis
in children. *Pediat.polska* 35 no.1:21-27 Ja '60.

1. Z Kliniki Pediatricznej Pomorskiej A.M. w Szczecinie. Kierow-
nik: prof.dr.med. B. Gornicki.
(SULFOMANIDES ther.)
(MENINGITIS ther.)

LICHT, Edward; BOGUSZEWSKA, Nina; SULOCKA, Zenona

Behavior of the aldolase level in the blood serum and cerebro-spinal fluid in children with tuberculous meningitis. *Pediat. pol.* 38 no.1:49-55 '63.

1. Z II Kliniki Pediatricznej PAM w Szczecinie Kierownik:
prof. dr med. B. Gornicki.

(TUBERCULOSIS, MENINGEAL)	(ALDOLASE)
(BLOOD CHEMICAL ANALYSIS)	(ENZYME TESTS)
(CEREBROSPINAL FLUID)	(TUBERCULOSIS IN CHILDHOOD)

BOGUSZEWSKI, Boguslaw, ins.

Electronic control system for road traffic. Motor 11 no.40:10`
7 0 '62.

BOGUSZEWSKI, Boguslaw, inz.

Automatic control of motor vehicles. Techn motor 14
no. 1:28-30 Ja '64.

B09032FWX1, U.

Mixed culture of lupins and oats. W. Roguski (Rocz. Nauk Rol., 1954, 68, A, 481-506).—Oat and lupin plants in varying proportions were grown in pot experiments. Comparative growth of the two species varied considerably with environmental conditions. Deficiency of N or P in the soil favoured the dominance of lupins. Low temp. by restricting the activity of nodule organisms restricted the growth of lupins more than that of oats. In general, mixed cultures produced higher total yields of crops and higher seed yields than did either species in pure culture. The N content of the mixed crop diminished with increase in the proportion of oats. Optimum total yields with least lowering of N content resulted from inclusion of relatively small proportions of oats in the mixed crop. A. G. POLLARD.

BOGUSZEWSKI, W.

POLON

Field tests on the use of urea as compared with nitro-chalk and ammoniated water. H. Brecka, W. Bogusze-
wski, Z. Tadejka, and A. Czechalski. *Rocznik Nauk Rol-
niczych*, Ser. A, 65, 603-5 (1954). The action of N in all
expts. was very clear producing yields 50% above the con-
trols. However, going beyond the middle rate tested did
not give more yields. The action of urea in small and mod-
erate dosages was equiv. to that of nitro-chalk. Urea was
noticeably weaker in action at the high dosage on rapeseed
and especially barley, although giving yields equiv. to nitro-
chalk with wheat and mustard. In the expts. with barley,
the highest dosage of urea was even worse than the inter-
mediate dosage. It was necessary to consider the cold
spring and the fact that barley lacks tolerance in connec-
tion with the form of NH_3 , and under the conditions of the
expts. urea changed its form in the soil. The action of NH_3
was equiv. to that of urea and nitro-chalk at the low dosage.
At the moderate and high dosages the action of NH_3 was
poorer with the exception of the expts. with rapeseed. Here
again results were influenced by: (1) the mech. organiza-
tion of the soil (light soil) and (2) the proportionally colder
spring, which decreased the intensity of nitrification. De-
spite the exercising of great care during application of the
 NH_3OH , the method used did not completely guarantee
against a loss of NH_3 . Only the repetition of the applica-
tion of NH_3 with the corresponding supplements in com-
bination with expts. on larger plots can lend a reality to the
accuracy of the results obtained. Ernest C. Lewis

Manuring flax with phosphorus H. Birecka, W. Bogu-
szewski, and H. Szukalski (*Roczn. Nauk Rol.* 1954 69, 2, 117)
In comparison with rape, flax needed a more conc. supply
of P in early growth but, under conditions of P deficiency showed
a greater capacity for assimilating P in later stages. The level of
P supply affected seed yields in flax more than in rape. Yields of
vegetative organs were affected to similar extents in both crops.
When broadcast, superphosphate was more effective in granular
than in powder form. With band placement the two forms were
equally efficient. A small application of superphosphate in the
seed drill had approx. treble the effect of a similar amount mixed
with the soil. In soils in which P fixation was small, the nutrient
content of the crop was unaffected by the form or method of applica-
tion of superphosphate.
A. G. POLLARD

(Effect of granulated superphosphate on yields of oats in relation to methods of application and soil reaction. H. Hirocka, W. Boguszycki and Z. Sankasiński (*Roenn. Nauka rol.*, 1955, 71, A, 5--43).--The importance of a liberal supply of P during the early stages of development is shown by various pot experiments. When evenly distributed through the soil (acid or neutral), the granulated form of superphosphate gives better results than the pulverized form. Application in layers does not (generally) affect the efficacy of the former, but improves that of the latter; this method of application reduces the efficacy of granulated superphosphate on limed soils which are highly deficient in P.

P. S. Anup

MD
(2)

POLAND/Soil Science - Mineral Fertilizers.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100076

Author : Birecka, H., Boguszewski, W., Szukalski, H., Lisiewicz, A.

Inst : -

Title : Periods of the Introduction of Fertilizers, Depending on the Reaction of the Soils.

Orig Pub : Roczn. nauk rolniczych, 1956, A73, No 4, 473-498

Abstract : In vegetational experiments on wheat in light soils, having a pH from 5.2 to 7.0, there were studied, in the Institute of Agricultural Chemistry of the Poznan Agricultural University, the autumn and spring periods of the application of powder-like and granulated superphosphate and also soda thermophosphate. At a pH of 5.2-5.4 and of 6.7-7.0, the fertilizers were more effective during the spring applications. At a pH of 6, the differences were not great. For the granulated super-

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POLAND/Soil Science - Mineral Fertilizers.

J

Abs Jour : Ref Zhur Biol., No 22, 1958, 100076

phosphate, the period of its application had a lesser
significance than for the powder-like superphosphate.
-- Z.I. Zhurbitkiy

Card 2/2

- 62 -

BOGUSZEWSKI, Wacław

Studies on mixed crops of yellow lupine with oats. II Use of the
nitrogen of lupine by oats. Rocznik rolni rosl 80 no.2:225-260
'59. (EEAI 9:11)

(Poland--Lupines)

(Poland--Oats)

(Nitrogen)

BOGUSZEWSKI, W., KAC-KACAS, M.

Remarks on the problem of liming soils in Poland. Postępy nauk roln 8
no.5:79-97 S-0 '61.

1. Pracownia Nawożenia, Instytut Uprawy, Nawożenia i Gleboznawstwa,
Pulawy.

(Poland--Soils)

BOGUSZEWSKI, W.; WAPNIARZ, F.

Nitrogen fertilizing as used in the rows under spring cereals. Rocznik nauk rolniczych 82 no.3:805-835 '61.

1. Pracownia Nawożenia, Instytut Uprawy, Nawożenia i Gleboznawstwa, Gorzów.

BOGUSZEWSKI, Wacław

Studies concerning mixed crops of yellow lupine with oats. Roczn. nauk
roln. rosl. 82 no.2:375-389 '61.

1. Pracownia Nawożenia w Gorzowie i Zakład Nawożenia, Instytut Uprawy,
Nawożenia i Gleboznawstwa, Bydgoszcz.

BOGUSZEWSKI, W.; KAC-KACAS, M.

Remarks on the problem of soil liming in Poland. Pt. 2. Postepy
nauk roln 9 no.2:57-74 Mr-Apr '62.

1. Pracownia Nawozenia, Instytut Uprawy, Nawozenia i
Gleboznawstwa, Pulawy.